

# PIV/CAC Biometric Reader



## MorphoAccess™ I20W PIV/CAC Reader

### ***GSA FIPS 201 Certified CHUID Reader for Entire FASC-N***

- Most accurate, interoperable biometric reader on GSA FIPS 201 APL\*
- Supports PIV and CAC End-Point Credentials
- FBI approved fingerprint sensor
- PIV IQS certified fingerprint sensor
- FIPS 201 approved template generator and matcher
- Exceeds standard for image quality specified by NIST, BIMA, FBI
- Morpho fingerprint image enhancement
  - Filter, correct effects of dirt, grease, scars
- PIV card authentication capabilities using
  - PIV CHUID, PIV Biometric, PKI, CAK

\* NIST MINEX Test Results 2004 to Present



[www.morphotrak.com](http://www.morphotrak.com)



**MorphoTrak**  
SAFRAN Group



# MorphoAccess™ I20W PIV/CAC Reader

Fingerprint identification for physical access control to meet HSPD 12 requirements

The MorphoAccess™ I20W PIV/CAC sets benchmarks for performance and versatility. The terminal features dual-core ARM9 microprocessors with multithread processing capabilities, providing unmatched performance.

MorphoAccess™ PIV terminals (MA PIV/CAC) are available in three models featuring Morpho fingerprint image enhancement, **MorphoSmart™ Optic** technology, and firmware that utilizes **NIST certified algorithms** for template generation and matching. This provides end users better performance in terms of throughput and reduced false rejection rates in day to day access to gates and doors.

MorphoAccess™ PIV/CAC terminals are the product of **thirty-five years of continuous improvement** measures which include engineered improvements to both the biometric sensors and algorithms for:

- Correction of finger rotation
- Patented fake finger detection
- Identification, filtering and repair of false minutiae points (dirt, grease, scars, wrinkles, cuts, foreign objects)
- Identification and filtering of latent prints that build up on the biometric sensor

MA PIV models may be ordered with or without **fake finger detection** and feature firmware designed to execute PIV and CAC workflow in a physical access environment (MA 520 and 521 PIV/CAC).

MorphoAccess™ terminals are compliant with ARRA/Buy American Act.

## Standard Features

### Physical Characteristics

- Dimensions: 5.6" x 3.3" x 2.5" (142mm x 84mm x 63.5mm)

### Software Development Kit (SDK)

- Card registration to PACS enrollment database

### Operating Characteristics

#### Environment

- Standard operating temperature: 14 F to 122 F (-10 C to +50 C)
- Electrical Supply Voltage: 9V, 16V (250mA typical @ 12 V)
- Power-Over-Ethernet (POE)

### Communication Interface Capabilities

- Port for ID card management
  - Customizable Wiegand IN & OUT, RS-485, RS-422, Data & Clock IN & OUT
- Ports for terminal communications
  - Ethernet 10/100 BaseT with DHCP via RJ45 connector or interface board
  - Wireless LAN (WIFI)
  - USB Host connector on motherboard
  - Relay: Low voltage N.O. or N.C. configurable Regulatory Approvals

### Regulatory Approvals

- Complies with EN60950, EN55022, FCC part 15 and EN55024, EN300330-1 and 2, CE, UL 60950

### Security Features

- Tamper & anti-theft switches, secured screws. Status available via terminal communications ports.
- Built in SAM reader (Contact us for more information)
- SSL (Contact us for more information)
- Fake Finger Detection & Contactless smart card reader (Model MA 521)

### Biometric Characteristics

- Integrated 500 dpi MorphoSmart sensor 0.9 in. x 0.9 in. (23mm x 23mm)
- GSA APL Classification: CHUID Reader
- FBI, PIV-IQS Certified
- FIPS 201 approved biometric algorithms
- Template extractor and template matcher MINEX certified
- 1:1 verification time < 1sec
- Identification time (1,000 records) < 1sec

	MA 120W PIV/CAC EP	MA 520 PIV/CAC EP	MA521 PIV/CAC EP
Contactless reader	PIV,CAC EP, MIFARE	PIV,CAC EP, MIFARE	PIV,CAC EP, MIFARE
Contact Reader (Available Summer 2010)	No	PIV, CAC EP	PIV, CAC EP
Fake Finger Detection	No	No	Yes
Multi-factor Authentication	Card + BIO	Card + BIO, Card + PIN, Card + BIO + PIN, Card + BIOPIH + PIN	
Product Numbers	??	MA00-05200B-P	MA00-05210B-P

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